

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,559	01/27/2004	Kazushige Hotta	1612.69203	4045
75	90 04/11/2005		EXAMINER	
Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD.			LE, THAO P	
300 South Wacker Dr., Suite 2500			ART UNIT	PAPER NUMBER
Chicago, IL 60			2818	

DATE MAILED: 04/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	- (AK			
	10/766,559	HOTTA, KAZUSHI	G .			
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication	Thao P. Le	ith the correspondence ad	dress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a lif NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thir riod will apply and will expire SIX (6) MOt atute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>2</u>	4 March 2005.					
2a) This action is FINAL 2b) ⊠ 1	This action is non-final.					
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-21 is/are pending in the applicat	☑ Claim(s) <u>1-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>14-17</u> is/are allowed.	☑ Claim(s) <u>14-17</u> is/are allowed.					
6)⊠ Claim(s) <u>18-21</u> is/are rejected.	☑ Claim(s) <u>18-21</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	niner.					
0)⊠ The drawing(s) filed on <u>27 January 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor	rrection is required if the drawing	ı(s) is objected to. See 37 CF	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 	nents have been received.					
3. Copies of the certified copies of the			Stage			
application from the International Bu	•	received in this National	Stage			
* See the attached detailed Office action for a		received.				
	,					
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE 		(s)/Mail Date Informal Patent Application (PTC	D-152)			
Paper No(s)/Mail Date <u>1/27/04</u> .	6) Other:		- ,			

Art Unit: 2818

DETAILED ACTION

Priority

Acknowledge is made of applicants' claim for foreign priority base on an application 2003-017306 filed in <u>Japan</u> on <u>1/27/2003</u>.

It is noted that Applicants have filled a certified copy of said application as required by U.S.C 119, which papers have been placed of record in the file.

Election/Restriction

Applicant's election with traverse of group I (claims 14-21) is acknowledged.

The traversal is on the ground(s) that "examination of both groups would not place an undue burden on the examiner". This is not found persuasive because the fields of search for method' and device claims are NOT coextensive and the determinations of patentability of method and device claims are different, that is process limitations and device limitations are given weight differently in determining the patentablitity of the claimed inventions. Also, the strategies for doing text searching of the device claims and method claims are different. Thus, separate searches are required. More addition, as explained in previous office action, the device of group I invention could be made by the processes different from those of the group II invention, for example, the order of forming steps in group I invention can be different from group II invention, group I invention can be formed without etching the second gate electrode

and using a third mask or performing ions implanting without using the second gate electrode and the first gate electrode layer as a mask as disclosed in group II invention.

The requirement is still deemed proper and is therefore made **FINAL**.

Information Disclosure Statement

Information Disclosure Statement (IDS) filed on October 12, 2000 and made of record. The references cited on the PTOL 1449 form have been considered.

Specification

The specification is objected to for the following reason:

On Page 7, line 7-8 "the third gate electrode is made of a first metal layer having etching characteristics different from etching characteristics of the first metal layer" is not clear and does not define the distinguish of the third gate electrode with the first and second gate electrodes. How can the same metal layer (first metal layer) be different in characteristics?

Claim Rejections

Claim Rejections - 35 USC § 112

Claim 18 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 18, line 23-24, "said third gate electrode is made of <u>a first metal layer</u> different from <u>the first metal layer</u>" is not clearly defined the subject matter and is unclear because "a first metal layer" and "the first metal layer" in lines 23-24 of claim 18 is one layer.

The remaining claims (19-21) are dependent from the above rejected claims and therefore also considered indefinite.

Reasons for Indication of Allowable Subject Matter

Claims 14-17 are allowed.

The following is a statement of reason for the indication of allowable subject matter:

Claims 14-17 are considered allowable since the prior made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations having a thin film transistor substrate comprising a first transistor having a first gate electrode made of a lamination of a first metal layer and a second metal layer, a second transistor having a second gate electrode made of a lamination of the first

Art Unit: 2818

metal layer and the second metal layer, and a third transistor having a third gate electrode made of the second metal layer and among other features cited in independent claim 14.

If Applicants are aware of better art than that which has been cited, they are required to call such to attention of the examiner.

When responding to the office action, Applicants' are advice to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-T (7-6).

Application/Control Number: 10/766,559 Page 6

Art Unit: 2818

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le Examiner

Art Unit 2818

March 31, 2005.